



EXPRESS MAIL NO: EV020613458US

1

SEQUENCE LISTING

<110> Mattiasson, Bo
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Jakeman, Kenneth
Hobman, Jonathan
Wilson, Jonathan
Van Der Leile, Daniel
Corbisier, Philippe

<120> METAL ION SPECIFIC CAPACITY SENSOR

<130> 100096.403USPC

<140> US 09/508,775

<141> 2000-10-25

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<170> FastSEQ for Windows Version 4.0

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<212> PRT
<213> Synechococcus sp.

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1 5 10 15
Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
20 25 30
Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
35 40 45
Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
50 55 60
Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
65 70 75 80
Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
85 90 95
Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
100 105 110
Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
115 120 125
Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
130 135 140
Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp

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145 150 155 160
 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175
 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190
 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205
 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
 210 215 220
 Arg Gly Ile Pro Met Thr Ser Thr Thr Leu Val Lys Cys Ala Cys Glu
 225 230 235 240
 Pro Cys Leu Cys Asn Val Asp Pro Ser Lys Ala Ile Asp Arg Asn Gly
 245 250 255
 Leu Tyr Tyr Cys Ser Glu Ala Cys Ala Asp Gly His Thr Gly Gly Ser
 260 265 270
 Lys Gly Cys Gly His Thr Gly Cys Asn Cys Ser Glu Phe Ile Val Thr
 275 280 285
 Asp

<210> 2
 <211> 144
 <212> PRT
 <213> *Pseudomonas aeruginosa*

<400> 2
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 1 5 10 15
 Ala Gly Val Asn Val Glu Thr Ile Arg Phe Tyr Gln Arg Lys Gly Leu
 20 25 30
 Leu Leu Glu Pro Asp Lys Pro Tyr Gly Ser Ile Arg Arg Tyr Gly Glu
 35 40 45
 Ala Asp Val Thr Arg Val Arg Phe Val Lys Ser Ala Gln Arg Leu Gly
 50 55 60
 Phe Ser Leu Asp Glu Ile Ala Glu Leu Leu Arg Leu Glu Asp Gly Thr
 65 70 75 80
 His Cys Glu Glu Ala Ser Ser Leu Ala Glu His Lys Leu Lys Asp Val
 85 90 95
 Arg Glu Lys Met Ala Asp Leu Ala Arg Met Glu Ala Val Leu Ser Glu
 100 105 110
 Leu Val Cys Ala Cys His Ala Arg Arg Gly Asn Val Ser Cys Pro Leu
 115 120 125
 Ile Ala Ser Leu Gln Gly Gly Ala Ser Leu Ala Gly Ser Ala Met Pro
 130 135 140

<210> 3
 <211> 145
 <212> PRT
 <213> *Alcaligenes eutrophus*

<400> 3
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 Val Thr Ile Arg Phe Tyr Glu Gln Glu Gly Leu Leu Pro Pro Pro Gly

20 25 30
Arg Ser Arg Gly Asn Phe Arg Leu Tyr Gly Glu Glu His Val Glu Arg
35 40 45
Leu Gln Phe Ile Arg His Cys Arg Ser Leu Asp Met Pro Leu Ser Asp
50 55 60
Val Arg Thr Leu Leu Ser Tyr Arg Lys Arg Pro Asp Gln Asp Cys Gly
65 70 75 80
Glu Val Asn Met Leu Leu Asp Glu His Ile Arg Gln Val Glu Ser Arg
85 90 95
Ile Gly Ala Leu Leu Glu Leu Lys His His Leu Val Glu Leu Arg Glu
100 105 110
Ala Cys Ser Gly Ala Arg Pro Ala Gln Ser Cys Gly Ile Leu Gln Gly
115 120 125
Leu Ser Asp Cys Val Cys Asp Thr Arg Gly Thr Thr Ala His Pro Ser
130 135 140

Asp
145

<210> 4
<211> 72
<212> PRT
<213> Pseudomonas aeruginosa

<400> 4
Ala Thr Gln Thr Val Thr Leu Ser Val Pro Gly Met Thr Cys Ser Ala
1 5 10 15
Cys Pro Ile Thr Val Lys Lys Ala Ile Ser Glu Val Glu Gly Val Ser
20 25 30
Lys Val Asp Val Thr Phe Glu Thr Arg Gln Ala Val Val Thr Phe Asp
35 40 45
Asp Ala Lys Thr Ser Val Gln Lys Leu Thr Lys Ala Thr Ala Asp Ala
50 55 60
Gly Tyr Pro Ser Ser Val Lys Gln
65 70